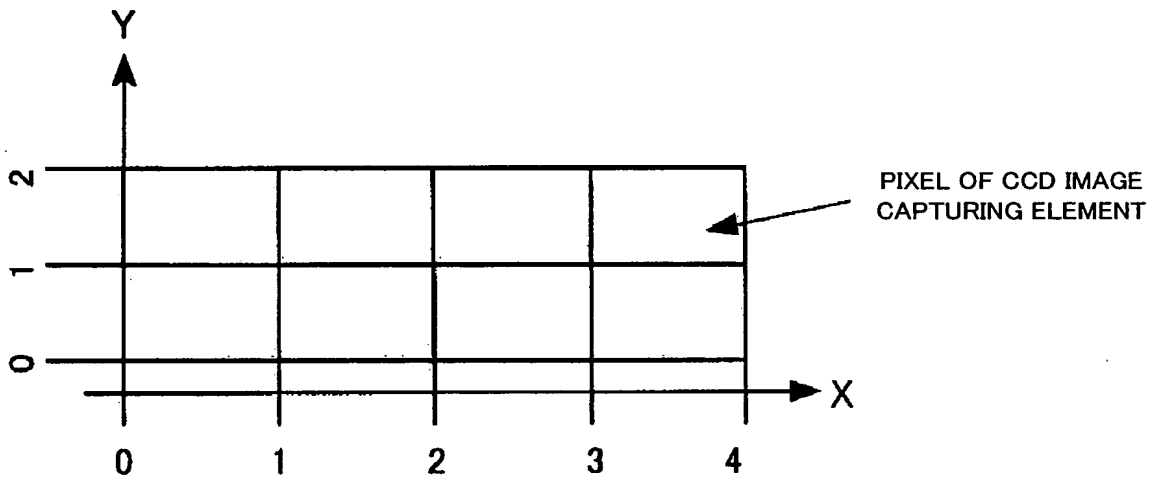


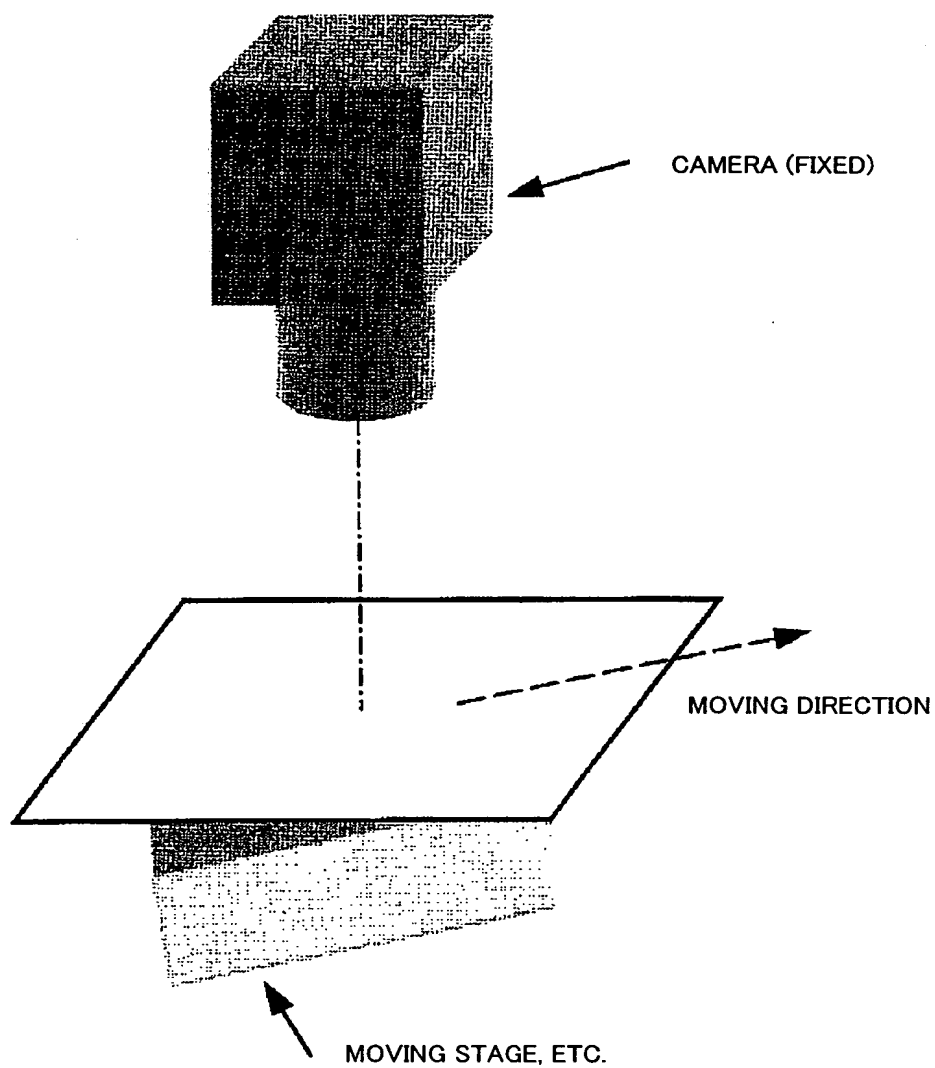
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FIG.1



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FIG.2



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FIG.3

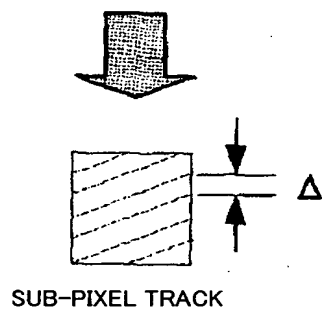
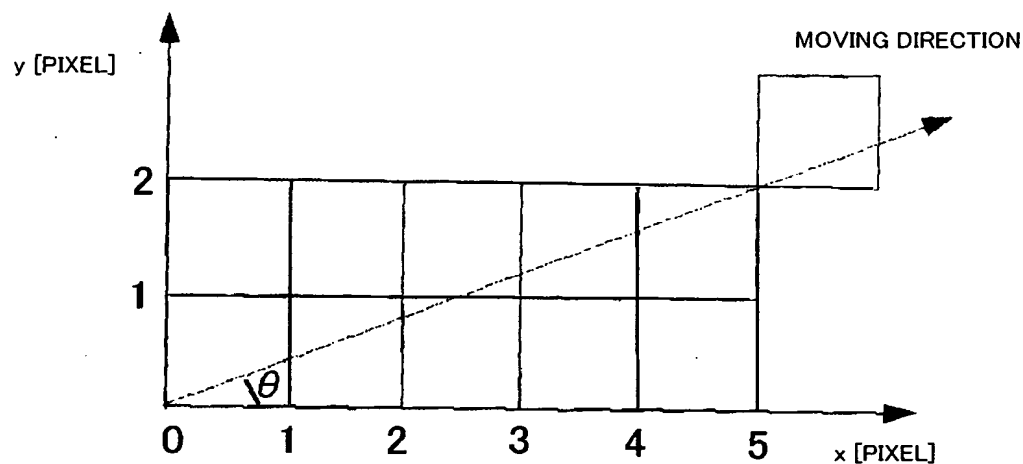
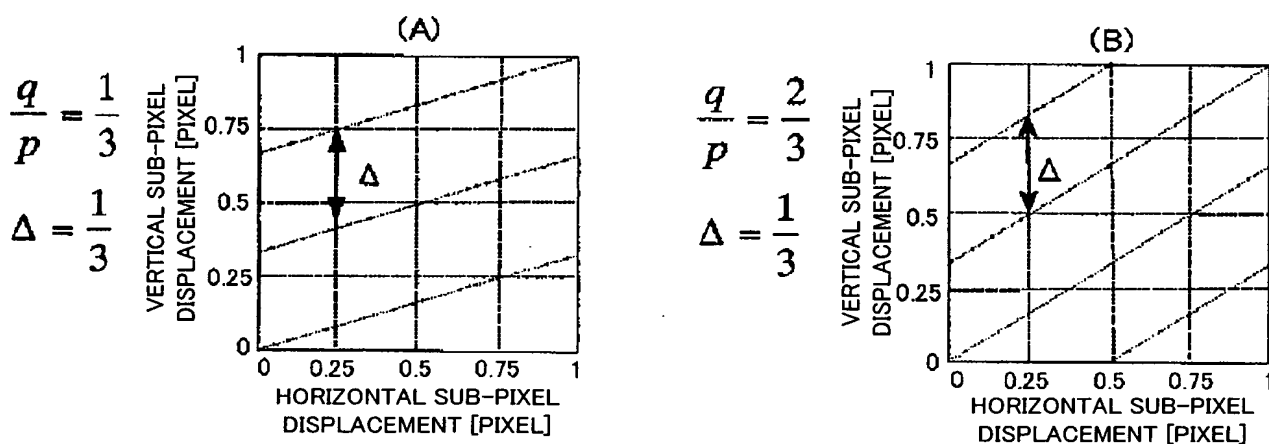


FIG.4



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FIG.5

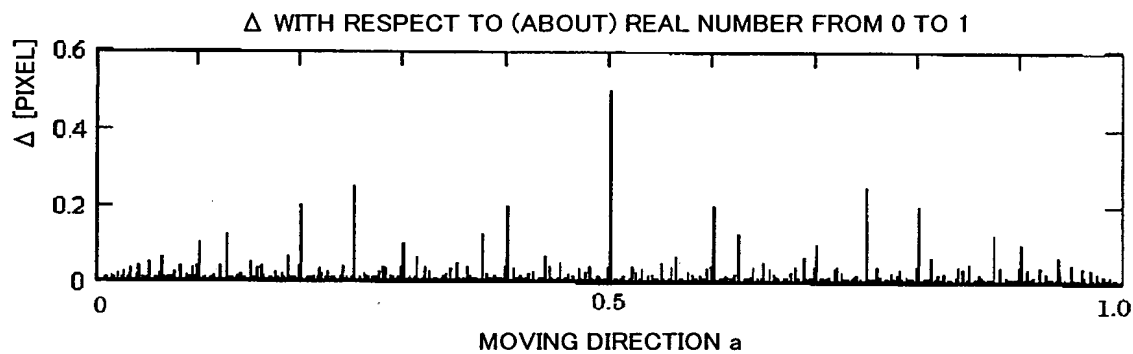
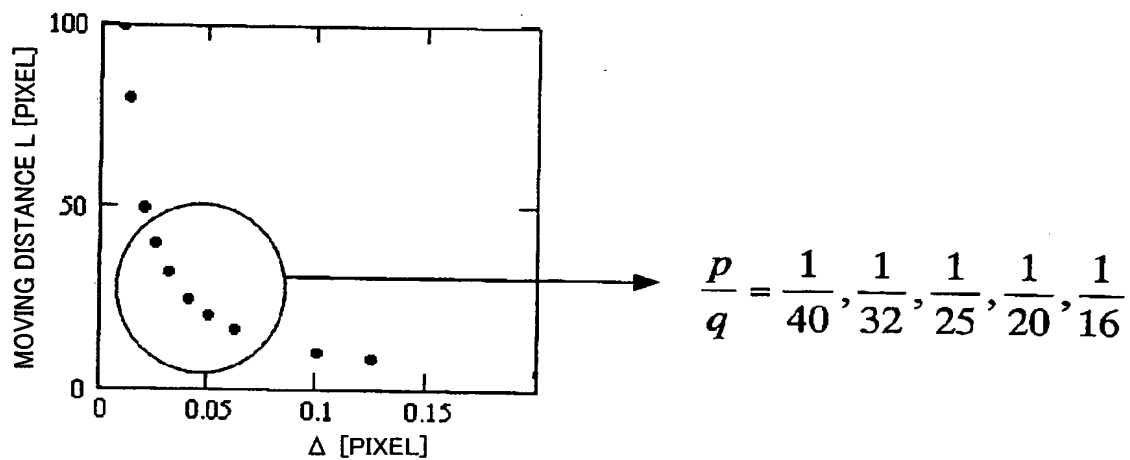


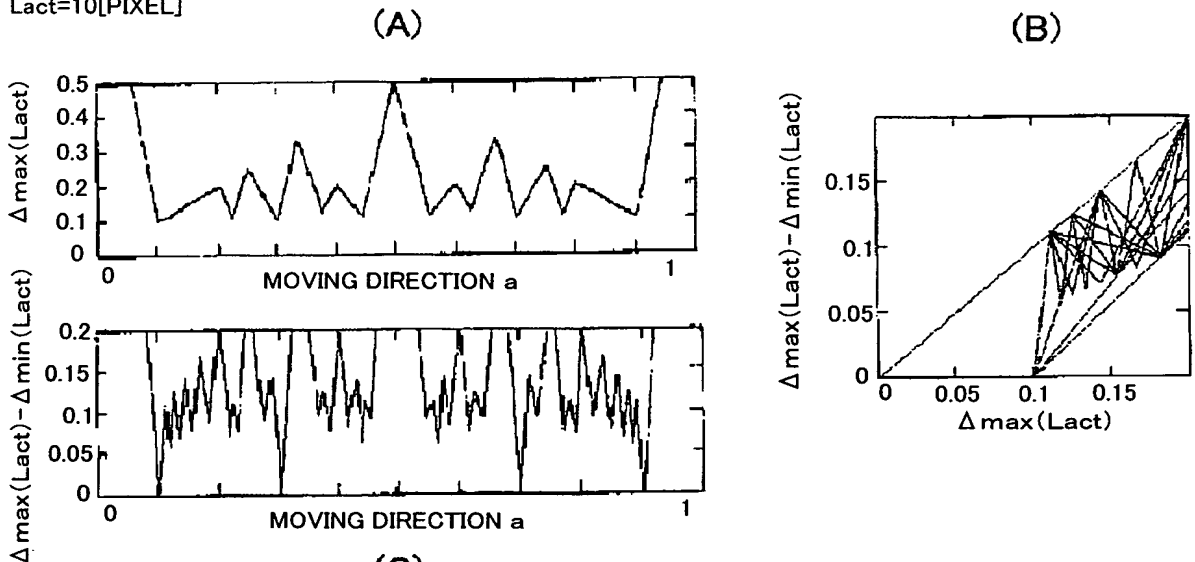
FIG.6



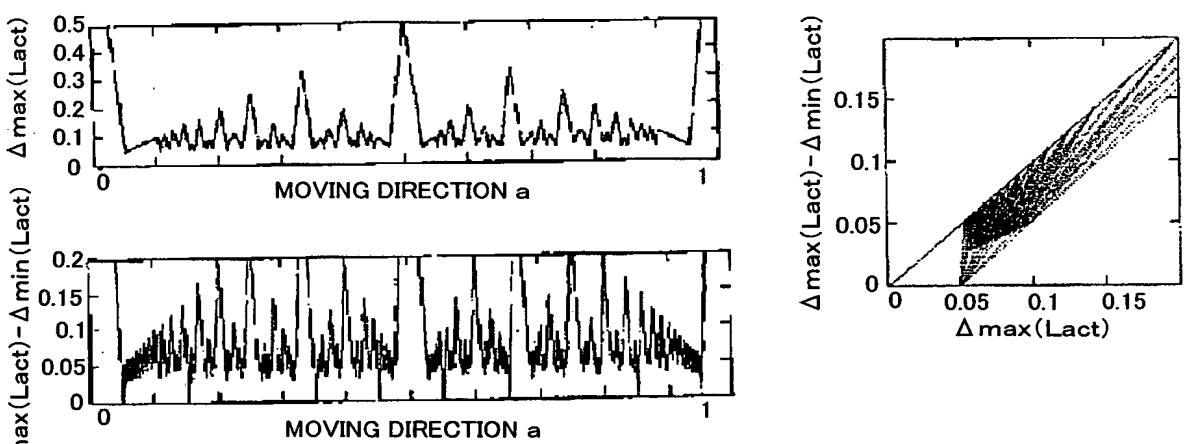
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FIG.7

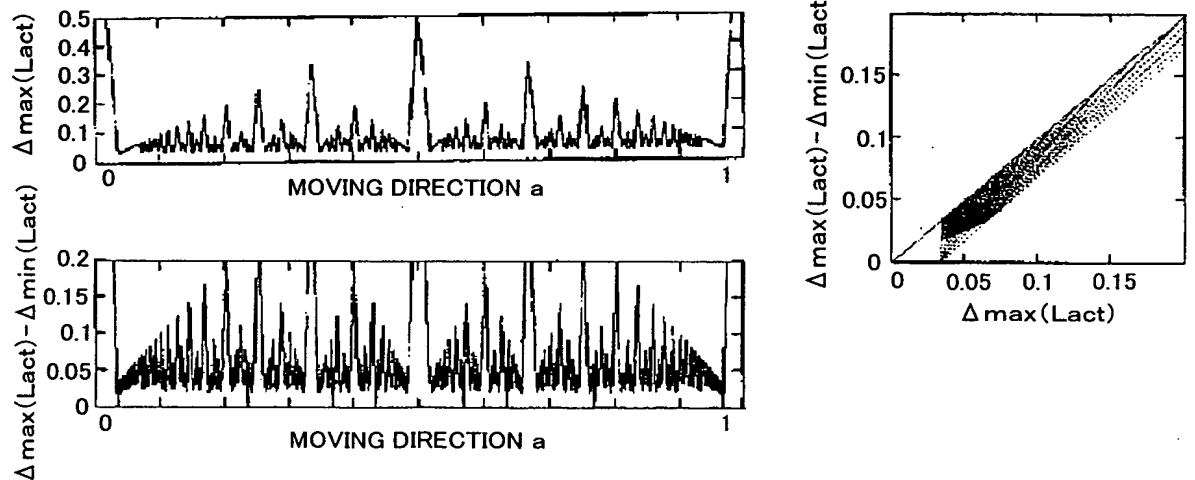
Lact=10[PIXEL]



Lact=20[PIXEL]

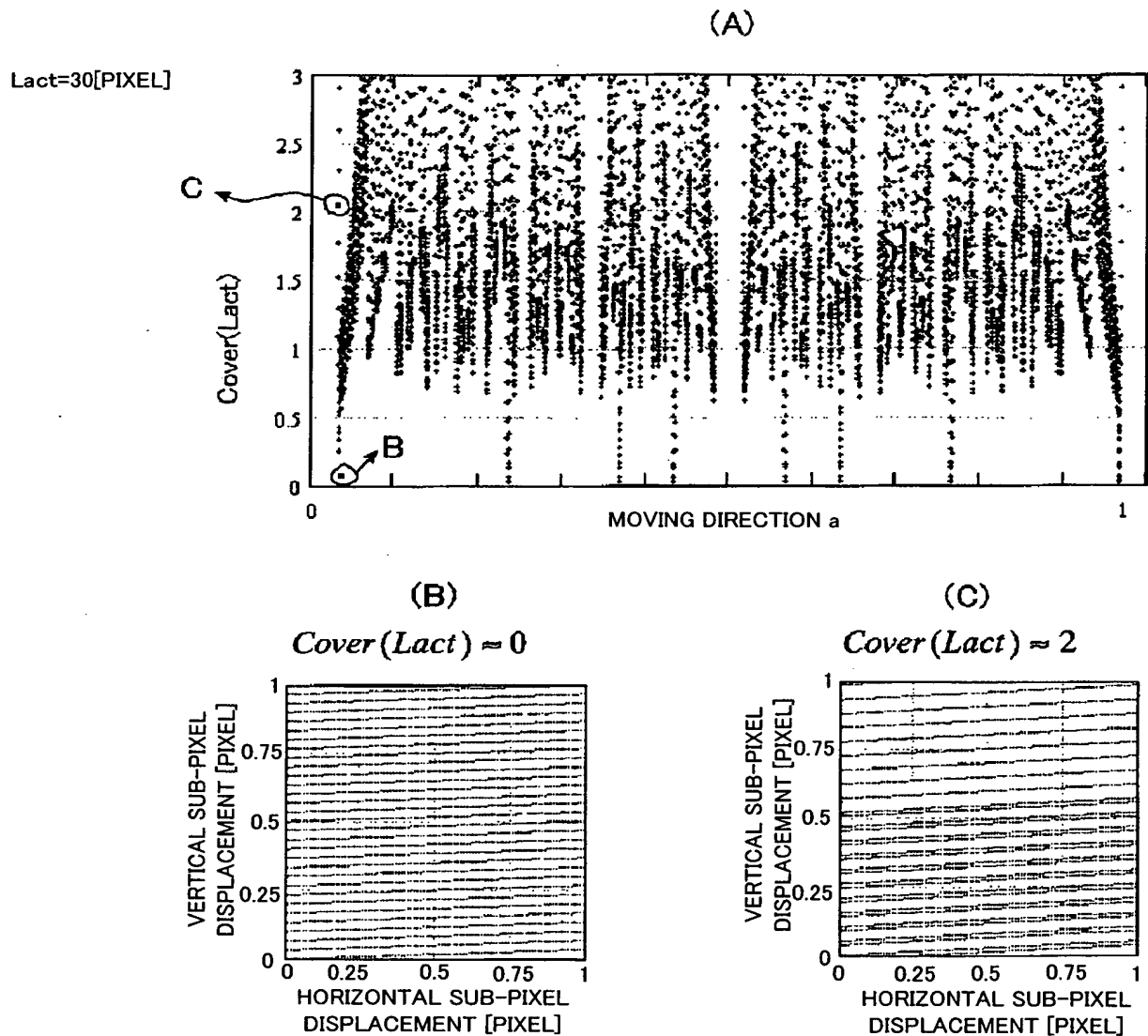


Lact=30[PIXEL]



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FIG.8



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FIG.9

Delta\_max(p,q,Lact) :=

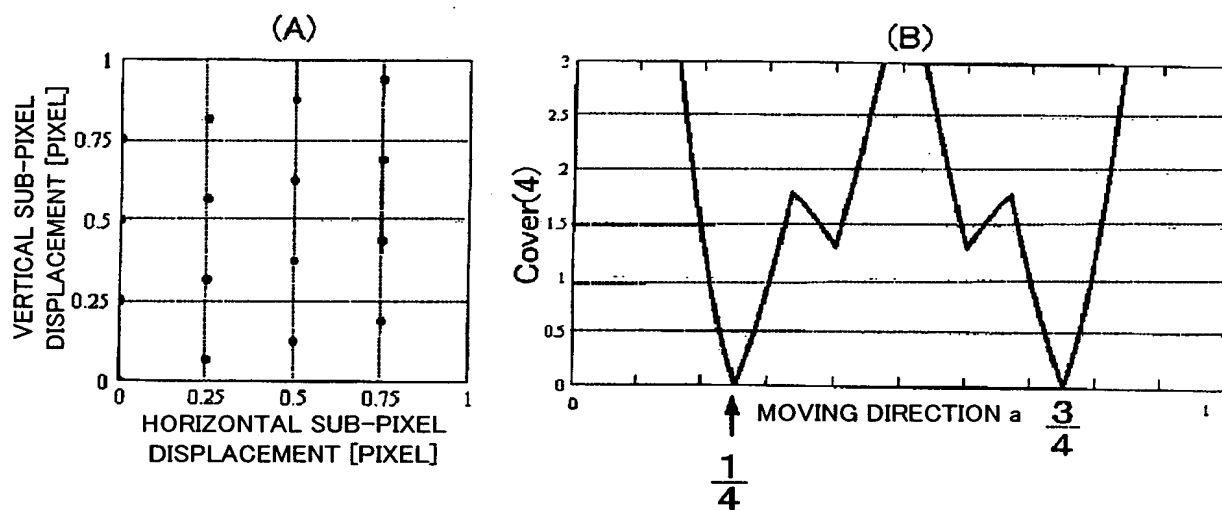
|                              |  |
|------------------------------|--|
| for                          | $n \in 0 \dots \text{Lact} - 1$                                      |
| $B_n \leftarrow$             | $\frac{q}{p} \cdot n - \text{floor}\left(\frac{q}{p} \cdot n\right)$ |
| $C \leftarrow$               | sort(B)  |
| $C_{\text{Lact}} \leftarrow$ | 1  |
| for                          | $n \in 0 \dots \text{Lact} - 1$                                      |
| $dB_n \leftarrow$            | $C_{n+1} - C_n$  |
| $dC \leftarrow$              | sort(dB)   |
| $dC_{\text{Lact}-1}$         |  |

Delta\_min(p,q,Lact) :=

|                              |  |
|------------------------------|--|
| for                          | $n \in 0 \dots \text{Lact} - 1$                                      |
| $B_n \leftarrow$             | $\frac{q}{p} \cdot n - \text{floor}\left(\frac{q}{p} \cdot n\right)$ |
| $C \leftarrow$               | sort(B)  |
| $C_{\text{Lact}} \leftarrow$ | 1  |
| for                          | $n \in 0 \dots \text{Lact} - 1$                                      |
| $dB_n \leftarrow$            | $C_{n+1} - C_n$  |
| $dC \leftarrow$              | sort(dB)   |
| $dC_0$                       |  |

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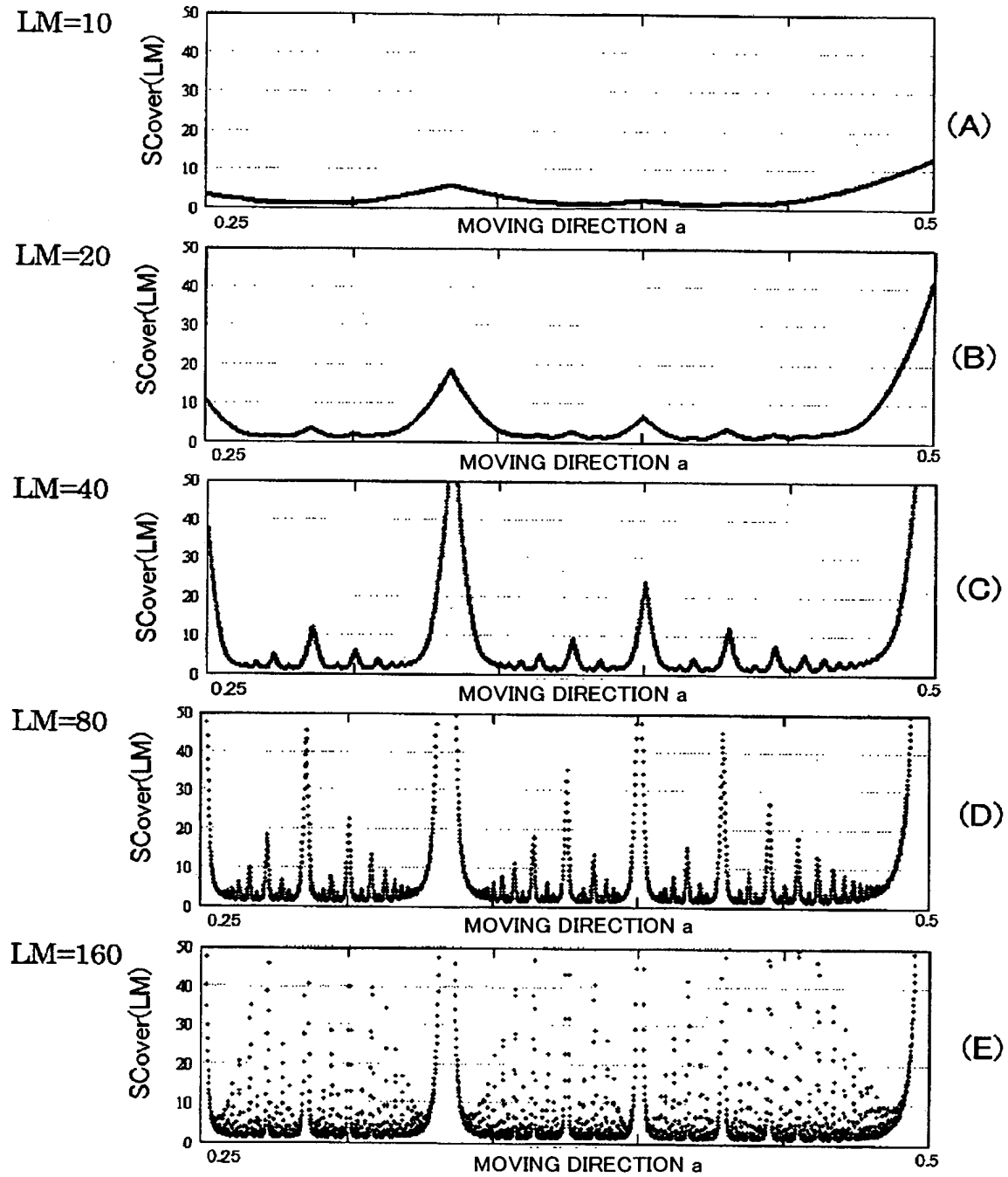
FIG.10





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FIG.11



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FIG.12

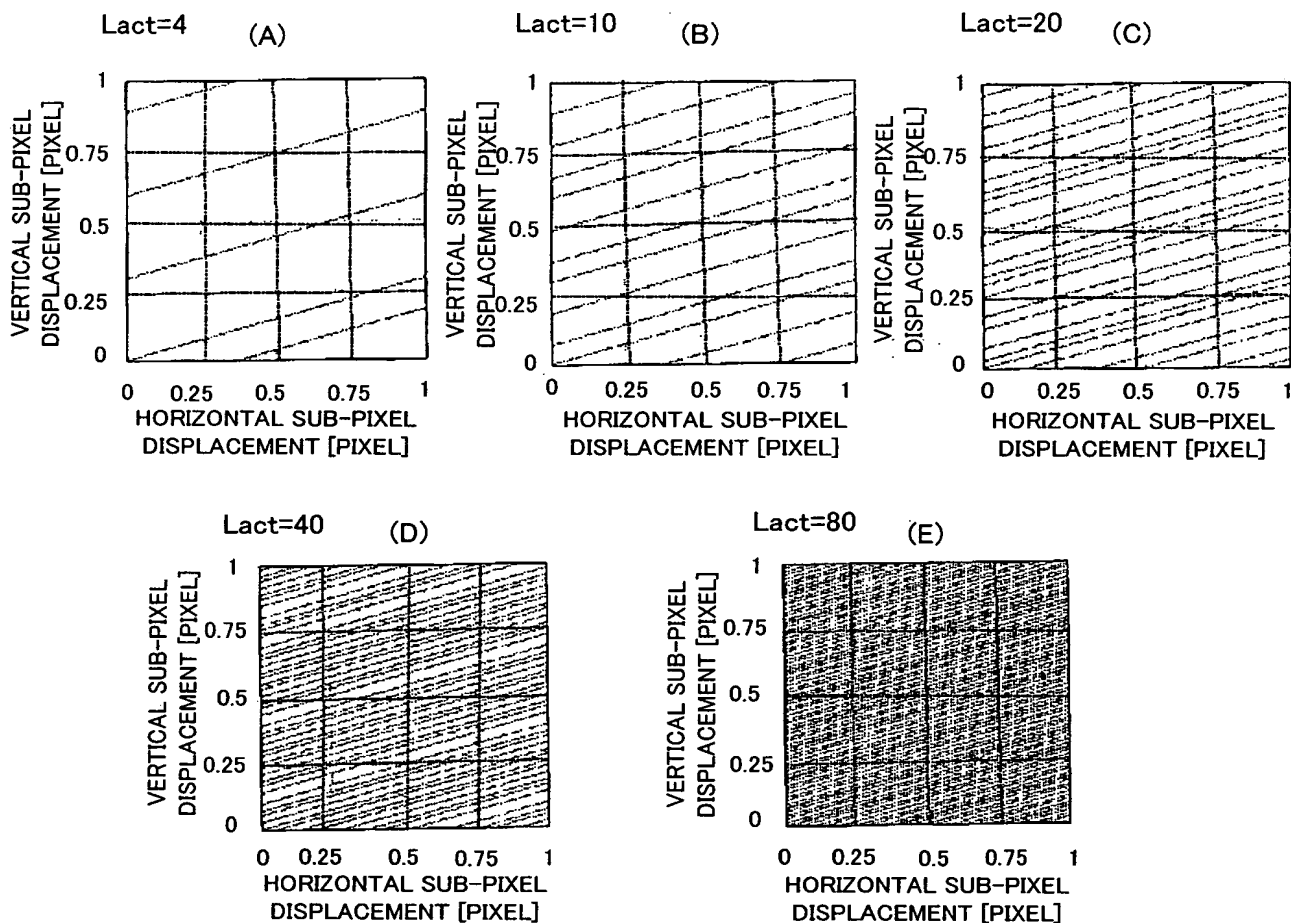


FIG.13

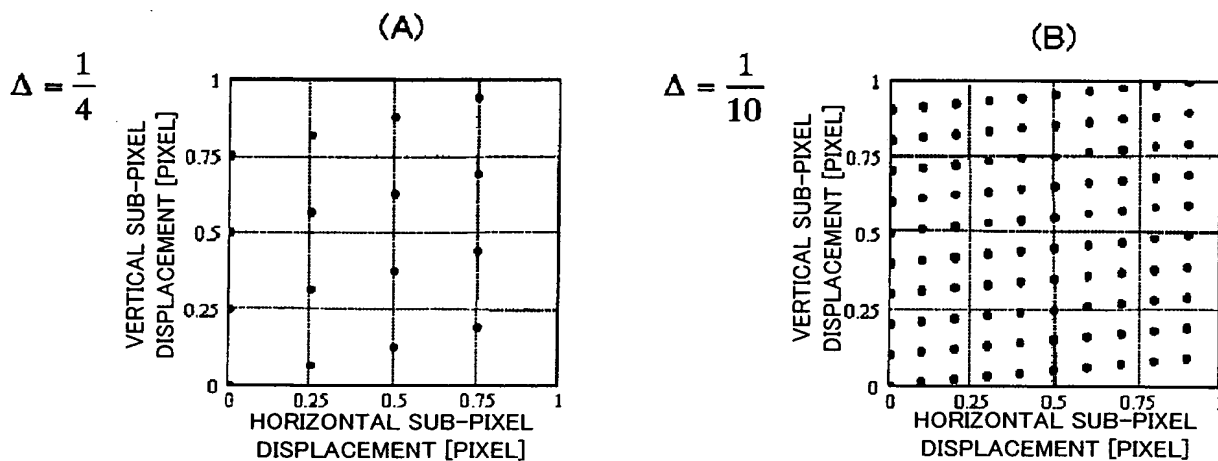
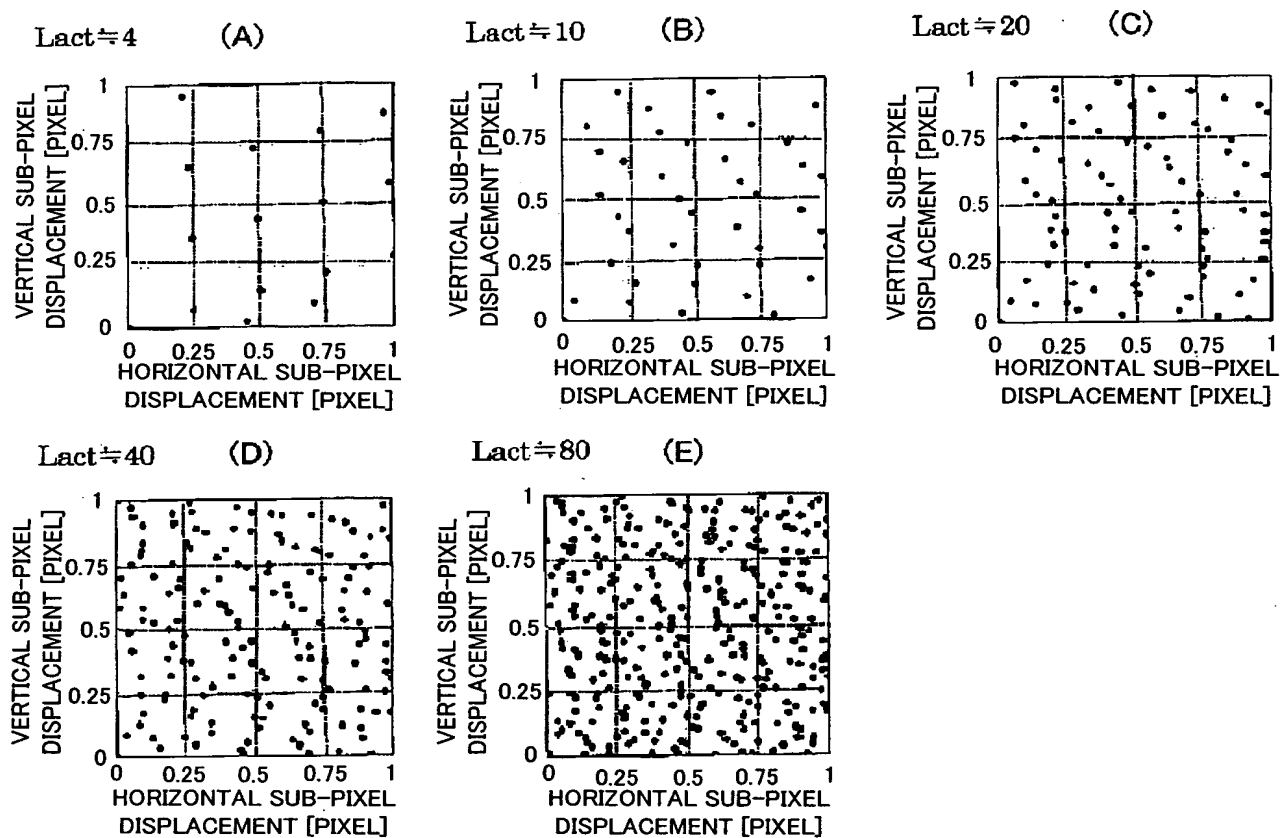


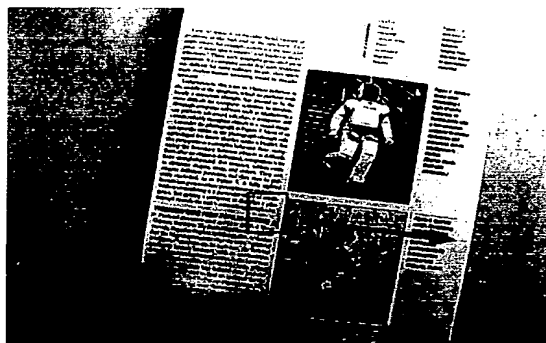
FIG.14



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FIG.15

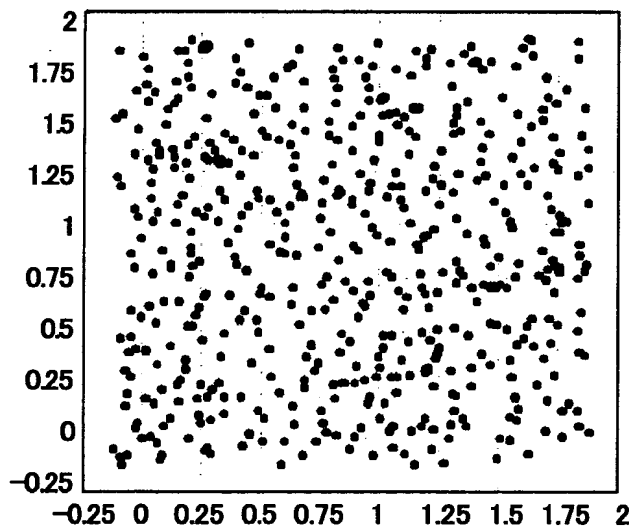
(A)



Lact=107.3, a=14.2/107.3

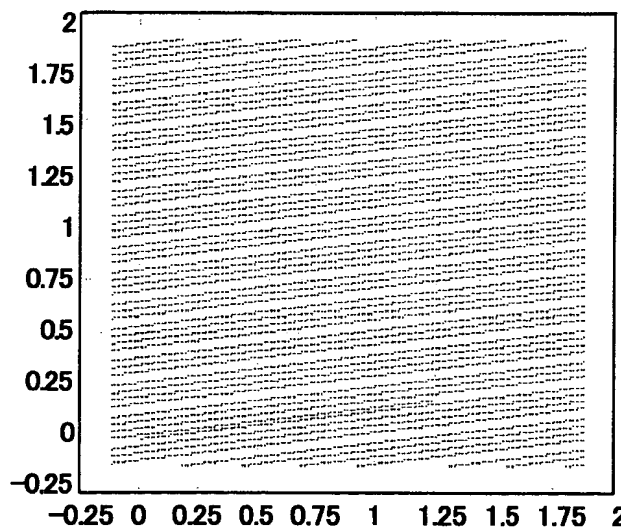
(B)

MEASURED SUB-PIXEL MOTION DISTRIBUTION

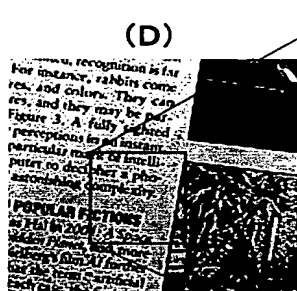


(C)

CALCULATED SUB-PIXEL MOTION DISTRIBUTION



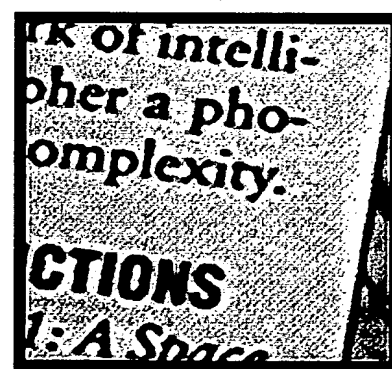
(E)



SIMPLE ENLARGEMENT OF  
Kodak DEMOSAICING PROCESS

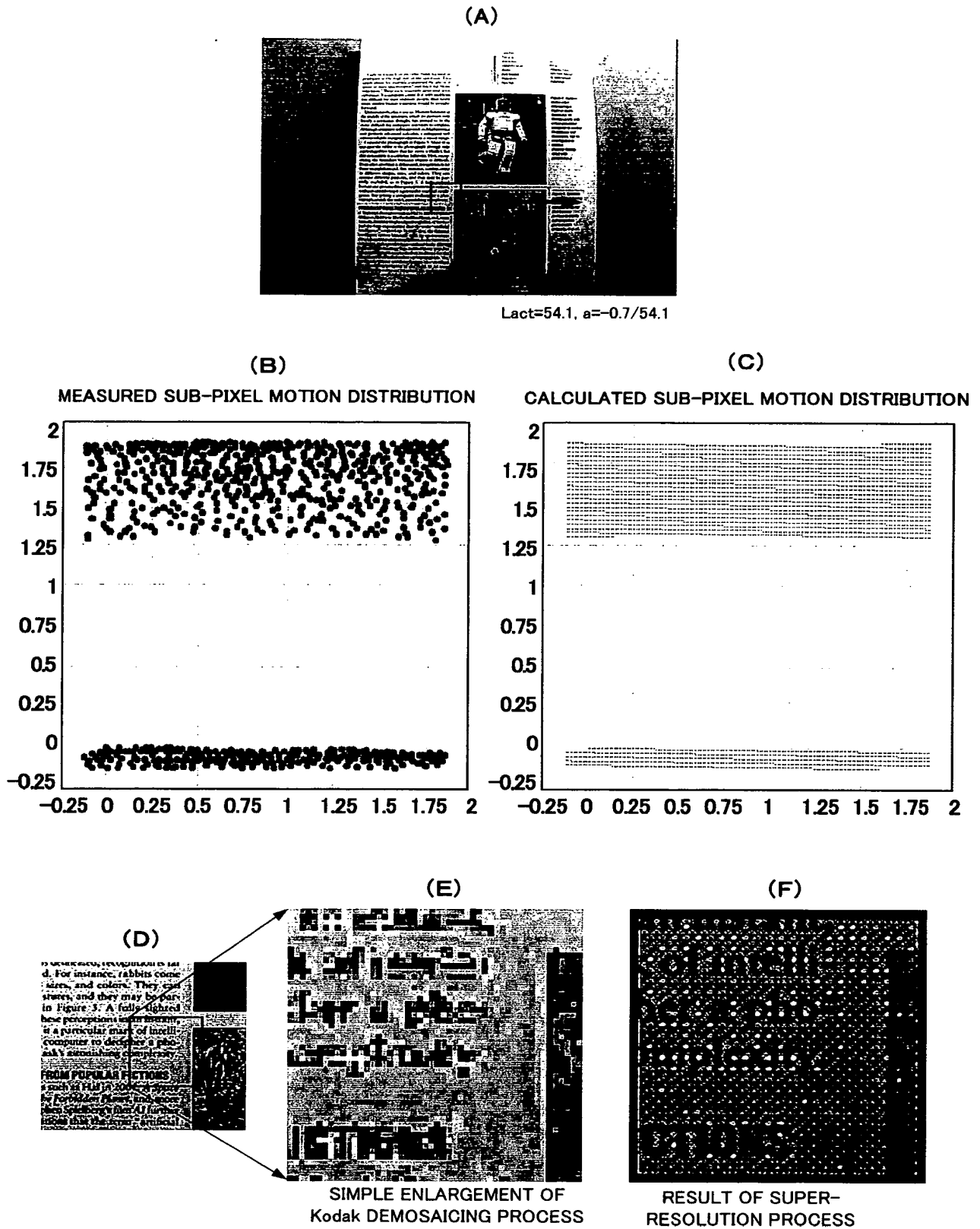


(F)



RESULT OF SUPER-  
RESOLUTION PROCESS

FIG.16



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FIG.17

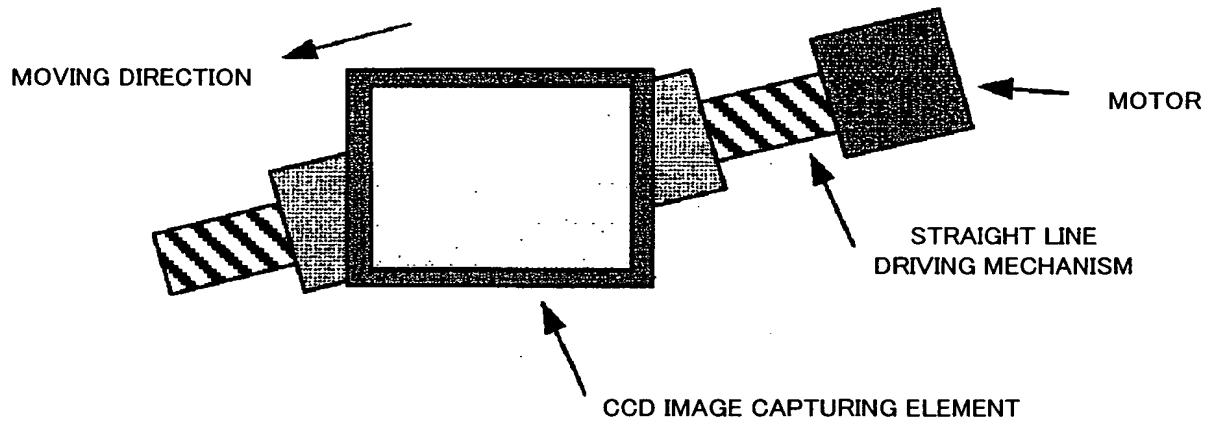
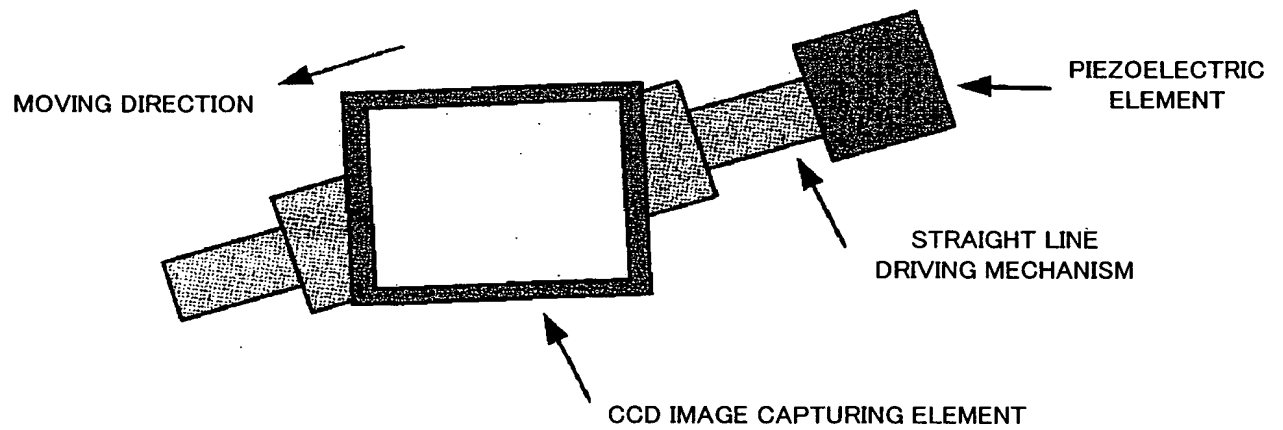
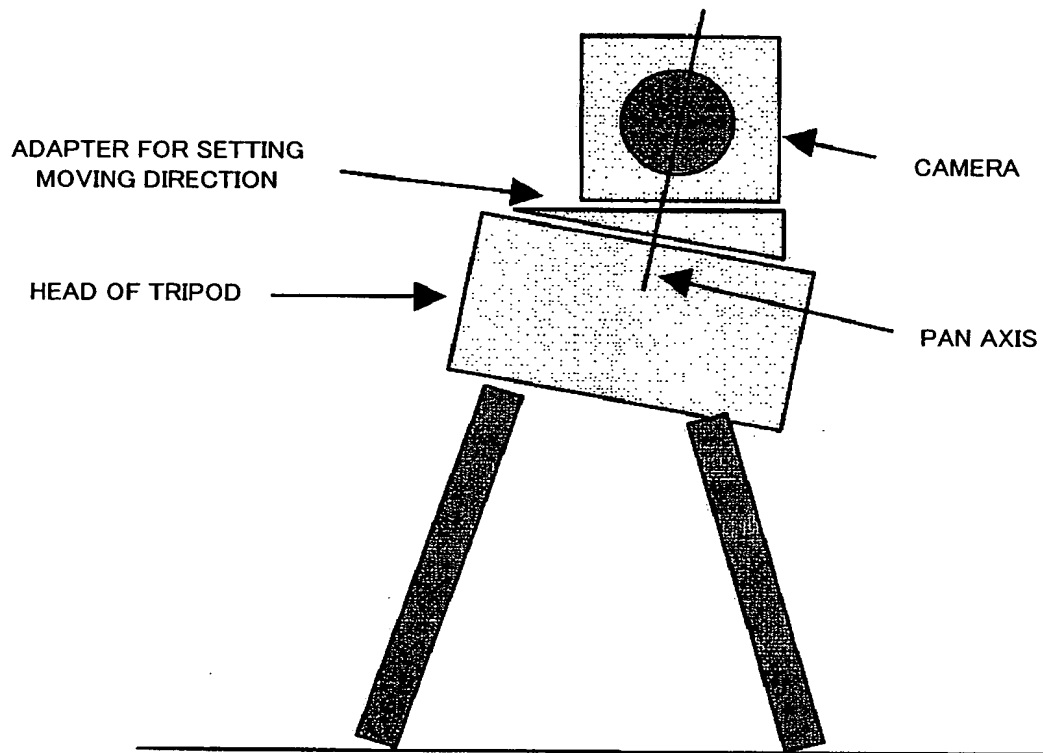


FIG.18



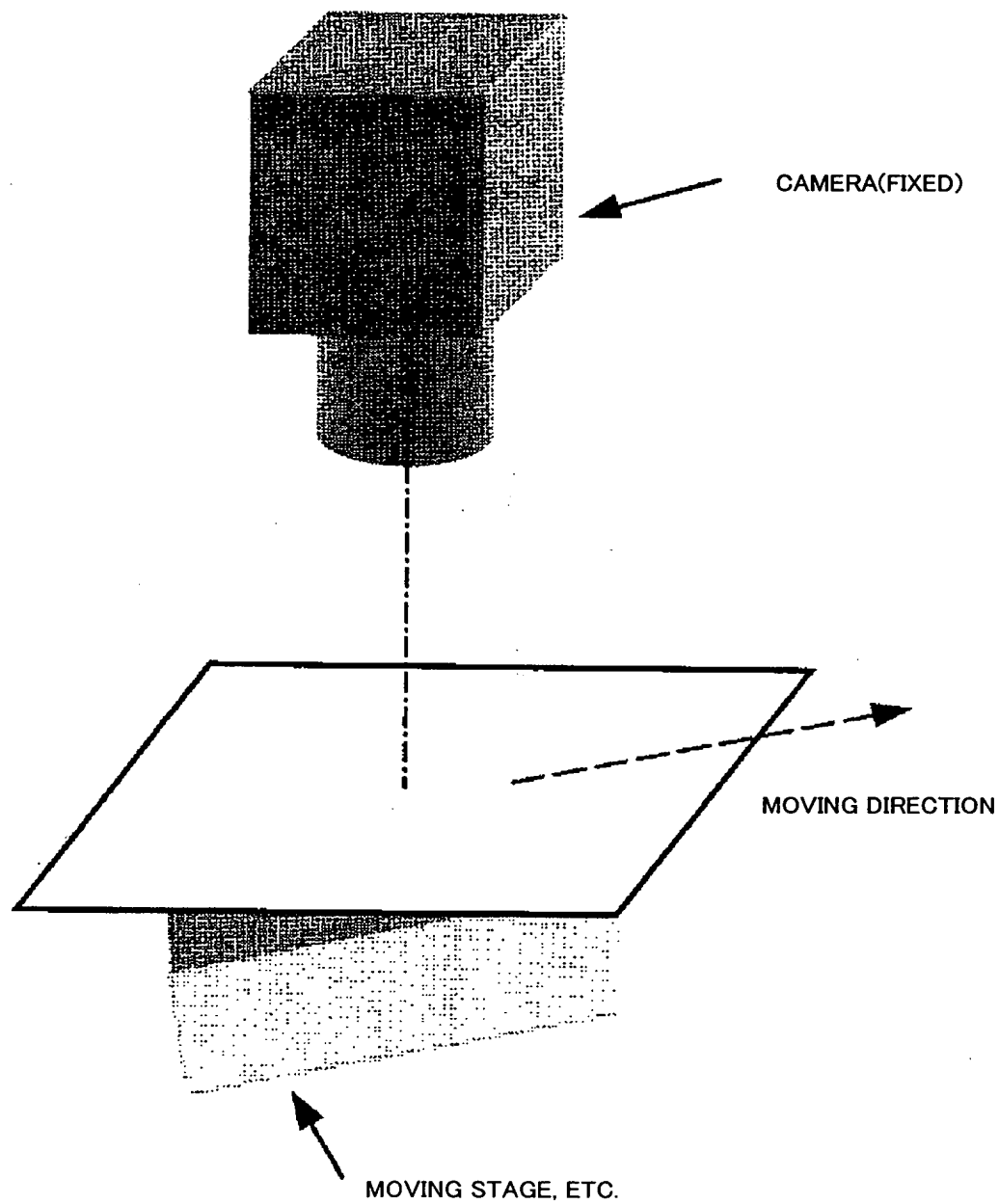
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FIG.19



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FIG.20





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FIG.21

